



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY - DIT MAY 2010

ECS 2202: SYSTEMS ANALYSIS & DESIGN I

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: MAY/JUNE 2012 **TIME:** 2 HOURS

Instructions to Candidates:

You should have the following for this examination Answer Booklet
This paper consist of FIVE questions
Answer any THREE questions. Question ONE is compulsory
Maximum marks for each part of a question are as shown
This paper consists of THREE printed pages

Question 1 (Compulsory - 30 marks)

a) Describe the meaning of the followingi) System theoryii) System decomposition	ng	(4 marks)
b) State any FIVE features of a system	l	(5 marks)
c) Identify any FIVE elements of a sys	stem	(5 marks)
 d) Explain the difference in meaning b i) Decoupling and Coupling ii) Negative feedback and posit iii) Open system and closed system 	ive feedback	(6 marks)
e) Why are there different types of info	ormation systems	(3 marks)
f) State any THREE functions of info	rmation systems	(3 marks)
g) Differentiate informal information s	ystems from formal information systems	(4 marks)
Question 2 (20 marks)		
 a) Who is a system analyst b) Explain any FOUR roles of a system c) Define the term 'Information System d) Describe any FOUR components of 	n'	(2 marks) (8 marks) (2 marks) (8 marks)
Question 3 (20 marks)		
a) Describe the meaning of "Transaction	on Processing Systems"	(3 marks)
b) State any FIVE activities carried ou	t by a Transaction Processing system	(5 marks)
c) Describe the meaning of "Transaction	on Processing Systems"	(3 marks)
d) Briefly explain the following data p	rocessing methods	(8 marks)
Question 4 (20 marks)		
 a) What is a Management Information b) State any FIVE functions of Manage c) State any FOUR examples of Manade d) Briefly describe any FOUR types of 	ement Information System gement Information System	(3 marks) (5 marks) (4 marks) (8 marks)
Question 5 (20 marks)		
a) Describe any THREE levels of orga	anizational information for management	(9 marks)
b) Briefly explain the following categor	ries of information systems	(6 marks)
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	i) Informal information systemii) Formal information system	
c)	What are the most common types of information systems in an organization	(5 marks)